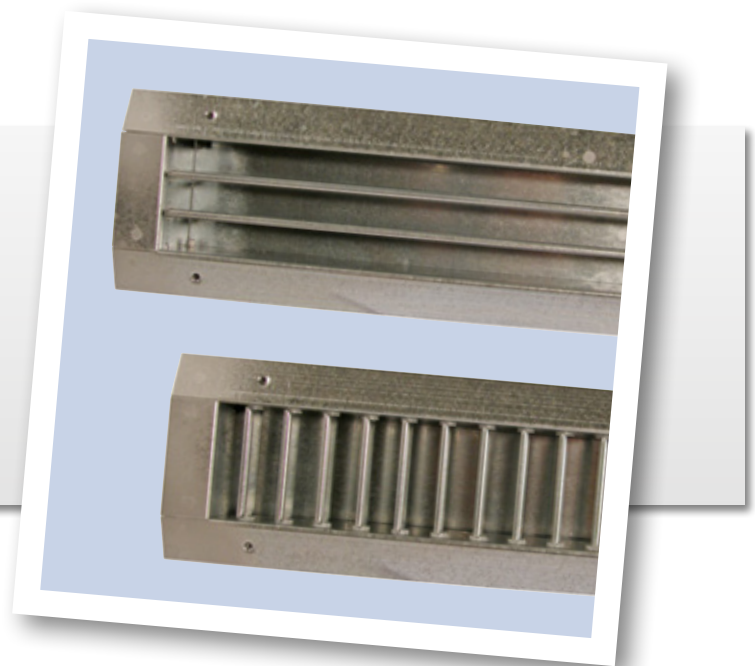


Installed directly in circular ducts without frames or other fastening devices

PIPE REGISTER-G



Uses

Pipe Register G is used for large locations where the circular duct is visible, for example in warehouses, factories, workshops, gymnasiums etc. Fits round ducts in dim. Ø200 - 1200 mm.

Capacity

20-1000 l/s.

Design

Pipe Register G is made of galvanized sheet steel.

The front is rounded in a radius that fits the spiro duct dimension, the backside is provided with a glued rubber moulding, which forms an airtight seal against the duct.

The air direction can be changed with the adjustable blades.

Horizontal blades (HS) control the air upwards - downwards.

Vertical blades (VS) control the air sideways.

When ordering, please state:

Pipe Register-G - 400 - VS - 1225 x 125

Product _____

Spiro dim. _____

Vertical blades VS | _____

Horizontal blades HS | _____

Nominal width _____

Nominal height _____

Pipe Register

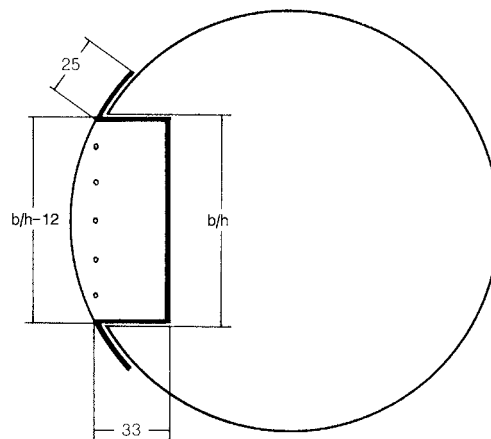
Pipe Register-G

Sizes

Note!

(nom. size = size of hole)

Ø 200-400	Spiro dim.	
	Ø 400-800	Ø 800-1200
225 x 75	225 x 125	—
325 x 75	325 x 125	325 x 225
425 x 75	425 x 125	425 x 225
525 x 75	525 x 125	525 x 225
625 x 75	625 x 125	625 x 225
825 x 75	825 x 125	825 x 225
1025 x 75	1025 x 125	1025 x 225
1225 x 75	1225 x 125	1225 x 225

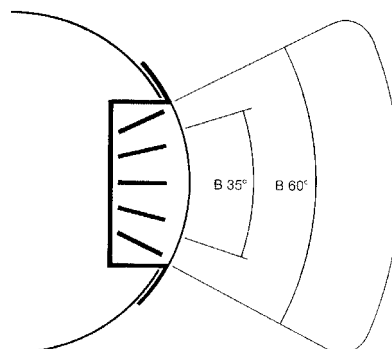


Jet throw

Jet throw acc. to fig.	K-factor
Straight	1
Diffusion 35°	0,8
Diffusion 60°	0,5

Reduction of jet throw when different blade positions are used.

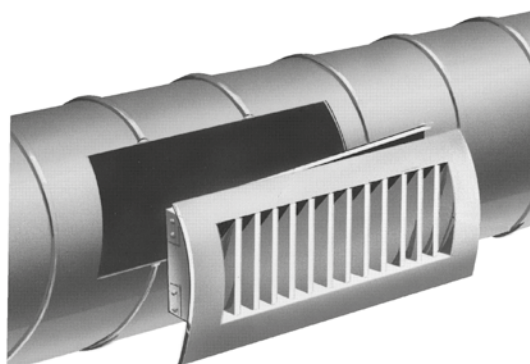
The jet throw = K x established value



Installation

- 1) Cut a hole in the Spiro duct.
Size of hole = the nominal size of the grille.
No frames or other accessories needed.

- 2) Fix Pipe Register G with a rivet in the pre-drilled holes.



Example for selecting dimension

Given data:

$q = 48 \text{ l/s}$

Spiro dimension = 200 mm.

Choose 47,5 l/s in the diagram and decide suitable dimension depending on desired jet throw.

- We choose for ex. Pipe Register-G 325 x 75 - vilket ger $L_{0,2} = 4,7 \text{ m}$.

Go straight to the right in the diagram and read sound level and pressure drop for different openings.

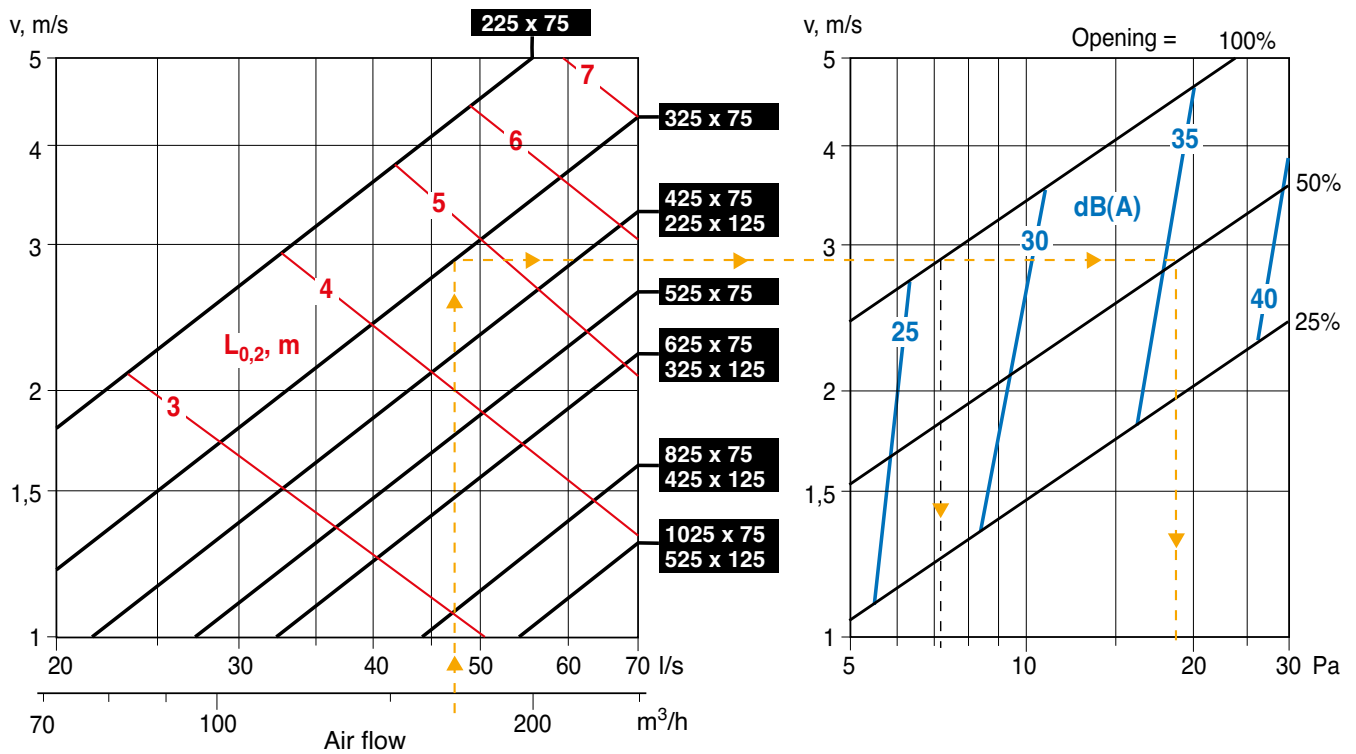
- 100% opening gives approx. 7 Pa and 26 dB(A).

- 50% opening gives approx. 19 Pa and 35 dB(A).

Finally, decide whether it should be horizontal (HS) or vertical (VS) blades and calculate possible reduction of the air throw with the help of the formula on the previous page.

- 35% diffusion gives: $L_{0,2} \times 0,8 = 4,7 \times 0,8 = 3,8 \text{ m}$.

Selection diagram



Pipe Register

Pipe Register-G



Selection diagram

